INTERNATIONALSEARCHREPORT

International application No. PCT/JP2004/019460

A. CLASSIFICATIONOF SUBJECT MATTER					
Int.Cl' C22F1/043, C22C21/02, B21J5/00					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols)					
Int.Cl ⁷ C22F1/043, C22C21/02, B21J5/00					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Japanese Utility Model Gazette 1922-1996. Japanese Publication of They madel					
Applications 1971-2005, Japanese Registered Utility Model Garette 1994-2005, Japanese Garette Containing the Utility Model 1996-2005					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the relevant passages			Relevant to claim No.	
¥	JP 64-39339 A(K.K. KOBE SEIKOUSHO)1989.02.09, Claims, page 1, column 2, lines 9-12, page 3, column 2, lines 19 - column 6, page 3, column 3			1,4-16	
	,lines 14-16,TABLE2(Family	r:no	ne)		
¥	JP 2000-265232 A(NIHON KIKINZOKU K.K.) 2000.09.26, Claims (Family: none)			1,4-16	
Y	- "			1,4-16	
	Claims & US 2002-3012 A1	•			
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Furthe	r documents are listed in the continuation of Box C.	[See patent family annex.		
Special categories of cited documents: "T" later document published after the international filing date or					
considered to be of particular relevance priority date and not in conflict with the application but cited understand the principle or theory underlying the invention				the application but cited to I	
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"O" document referring to an oral disclosure, use, exhibition or other combined with one or mo			combined with one or more othe	step when the document is r such documents, such	
ann t-			combination being obvious to a person document member of the same pater	in skilled in the art	
			Date of mailing of the international search report		
31.03.2005		19. 4. 2005			
Name and mailing address of the ISA/JP			norized officer		
Japan Patent Office		TA	KESHI INOUE	4K 9269	
2427			phone No. +81-3-3581-1101 Fr	4 2425	